



## 1. Identification of the product and of the company/undertaking:

## **1.1. Identification of the product:**

Pigment Ink, FPG-BK

## 1.2. Company/undertaking identification

Manufacture's name:	Roland DG Corporation
Address:	1-6-4 Shinmiyakoda Hamamatsu-shi
	Shizuoka 431-2103
	JAPAN
Phone:	+ 81-53-484-1224
Fax:	+ 81-53-484-1221

#### 2. Composition/information on ingredients

Ingredients:	-

Company Secret (Mixture: water-soluble ink)

## 3. Hazards identification

No hazardous classification according to Council Directive 88/379/EEC

Swallowed:	First immediately rinse out mouth several times with water. Then drink 2-3 glasses of water. Give nothing by mouth to an unconscious person. Rest quietly in bed. Seek medical advice immediately.
Eye:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower lids. Contact lenses must be removed. Seek medical advice.
Skin:	If exposures is excessive, immediately remove all contaminated clothing in contact with the affected skin areas. Wash affected skin areas with soap and water. If symptoms such as irritation persist, seek medical advice.
Inhaled:	If the person breaths in a large amount of vapor, move the exposed the person to an area with fresh air. Seek medical advice immediately.



Flammability: Suitable extinguishing media: None Dry Chemical, carbon dioxide.

## 6. Accidental release measures

If spilt, use sponge to wipe up the ink. Place it in closed container for proper disposal. During working for clean up, put on rubber gloves and goggle to avoid contacting ink to skin and eyes.

## 7. Handling and storage

## 7.1. Handling

Under normal circumstances, ink will not come out of the cartridges. If ink gets into your eyes or on your skin, see **4.First -aid measures**. Do not shake an ink cartridge; this can cause leakage. Do not dismantle the cartridge. Keep ink cartridges out of the reach of children. Do not drink ink.

# 7.2. Storage

Do not leave ink cartridges in high temperature and high humidity. Do not expose directly to the sun.

### 8. Exposure controls/person protection

Exposure standards:	None
Engineering controls:	Not applicable
Personal protection:	None required when used as intended in Roland equipment.

Appearance	Black liquid	
Odor:	No odor	
pH:	Approximately 9	at room temperature
Boiling point:	No data available	
Melting point:	No data available	
Flashing point:	Not detected until 110°C	
Autoflammability:	None	
Explosive properties:	None	
Oxidizing properties:	None	
Vapor pressure:	No data available	
Relative density:	No data available	
Solubility in water:	$\infty$	
Solubility in fat:	No data available	
Partition coefficient:	No data available	
Viscosity:	less than 5 mPa-s	at room temperature



Stability: Hazardous polymerization: Hazardous decomposition products: Stable Will not occur No data available

## 11. Toxicological information

Acute toxicity: Oral LD50: Dermal LD50: Irritation: Skin: Eye: Skin sensitization: Mutagenicity: \*Based on toxicology data of chemically similar material.

>2,000mg/kg (Rats)\* >2,000mg/kg (Rats)\*

Non-irritating (Rabbit skin)\* Non-irritating (Rabbit eye)\* Non-sensitizing (Albino Guinea pig)\* None (by Ames assay)\*

## 12. Ecological information

No data available

## 13. Disposal considerations

Dispose of in accordance with federal, state and local regulations.

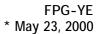
### 14. Transport information

No hazardous classification

## 15. Regulatory information

-

# 16. Other information





## 1. Identification of the product and of the company/undertaking:

# 1.1. Identification of the product:

Pigment Ink, FPG-YE

# 1.2. Company/undertaking identification

## 2. Composition/information on ingredients

Ingredients:
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Company Secret (Mixture: water-soluble ink)

#### 3. Hazards identification

No hazardous classification according to Council Directive 88/379/EEC

Swallowed:	First immediately rinse out mouth several times with water. Then drink 2-3 glasses of water. Give nothing by mouth to an unconscious person. Rest quietly in bed. Seek medical advice immediately.
Eye:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower lids. Contact lenses must be removed. Seek medical advice.
Skin:	If exposures is excessive, immediately remove all contaminated clothing in contact with the affected skin areas. Wash affected skin areas with soap and water. If symptoms such as irritation persist, seek medical advice.
Inhaled:	If the person breaths in a large amount of vapor, move the exposed the person to an area with fresh air. Seek medical advice immediately.



Flammability: Suitable extinguishing media: None Dry Chemical, carbon dioxide.

## 6. Accidental release measures

If spilt, use sponge to wipe up the ink. Place it in closed container for proper disposal. During working for clean up, put on rubber gloves and goggle to avoid contacting ink to skin and eyes.

#### 7. Handling and storage

# 7.1. Handling

Under normal circumastances, ink will not come out of the cartridges. If ink gets into your eyes or on your skin, see **4.First -aid measures**. Do not shake an ink cartridge; this can cause leakage. Do not dismantle the cartridge. Keep ink cartridges out of the reach of children. Do not drink ink.

## 7.2. Storage

Do not leave ink cartridges in high temperature and high humidity. Do not expose directly to the sun.

#### 8. Exposure controls/person protection

Exposure standards:	None
Engineering controls:	Not applicable
Personal protection:	None required when used as intended in Roland equipment.

Appearance	Yellow liquid	
Odor:	No odor	
pH:	Approximately 9	at room temperature
Boiling point:	No data available	
Melting point:	No data available	
Flashing point:	Not detected until 110°C	
Autoflammability:	None	
Explosive properties:	None	
Oxidizing properties:	None	
Vapor pressure:	No data available	
Relative density:	No data available	
Solubility in water:	$\infty$	
Solubility in fat:	No data available	
Partition coefficient:	No data available	
Viscosity:	less than 5 mPa∙s	at room temperature



Stability: Hazardous polymerization: Hazardous decomposition products: Stable Will not occur No data available

## 11. Toxicological information

Acute toxicity: Oral LD50: Dermal LD50: Irritation: Skin: Eye: Skin sensitization: Mutagenicity: \*Based on toxicology data of chemically similar material.

>2,000mg/kg (Rats)\* >2,000mg/kg (Rats)\*

Non-irritating (Rabbit skin)\* Non-irritating (Rabbit eye)\* Non-sensitizing (Albino Guinea pig)\* None (by Ames assay)\*

## 12. Ecological information

No data available

### 13. Disposal considerations

Dispose of in accordance with federal, state and local regulations.

## 14. Transport information

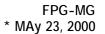
No hazardous classification

## 15. Regulatory information

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## 16. Other information

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# 1. Identification of the product and of the company/undertaking:

# 1.1. Identification of the product:

Pigment Ink, FPG-MG

## 1.2. Company/undertaking identification

Manufacture's name:	Roland DG Corporation
Address:	1-6-4 Shinmiyakoda Hamamatsu-shi
	Shizuoka 431-2103
	JAPAN
Phone:	+ 81-53-484-1224
Fax:	+ 81-53-484-1221

#### 2. Composition/information on ingredients

Ingredients:		

Company Secret (Mixture: water-soluble ink)

#### 3. Hazards identification

No hazardous classification according to Council Directive 88/379/EEC

Swallowed:	First immediately rinse out mouth several times with water. Then drink 2-3 glasses of water. Give nothing by mouth to an unconscious person. Rest quietly in bed. Seek medical advice immediately.
Eye:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower lids. Contact lenses must be removed. Seek medical advice.
Skin:	If exposures is excessive, immediately remove all contaminated clothing in contact with the affected skin areas. Wash affected skin areas with soap and water. If symptoms such as irritation persist, seek medical advice.
Inhaled:	If the person breaths in a large amount of vapor, move the exposed the person to an area with fresh air. Seek medical advice immediately.



Flammability: Suitable extinguishing media: None Dry Chemical, carbon dioxide.

## 6. Accidental release measures

If spilt, use sponge to wipe up the ink. Place it in closed container for proper disposal. During working for clean up, put on rubber gloves and goggle to avoid contacting ink to skin and eyes.

## 7. Handling and storage

## 7.1. Handling

Under normal circumastances, ink will not come out of the cartridges. If ink gets into your eyes or on your skin, see **4.First -aid measures**. Do not shake an ink cartridge; this can cause leakage. Do not dismantle the cartridge. Keep ink cartridges out of the reach of children. Do not drink ink.

# 7.2. Storage

Do not leave ink cartridges in high temperature and high humidity. Do not expose directly to the sun.

### 8. Exposure controls/person protection

Exposure standards:	None
Engineering controls:	Not applicable
Personal protection:	None required when used as intended in Roland equipment.

Appearance	Magenta liquid	
Odor:	No odor	
pH:	Approximately 9	at room temperature
Boiling point:	No data available	
Melting point:	No data available	
Flashing point:	Not detected until 110°C	
Autoflammability:	None	
Explosive properties:	None	
Oxidizing properties:	None	
Vapor pressure:	No data available	
Relative density:	No data available	
Solubility in water:	$\infty$	
Solubility in fat:	No data available	
Partition coefficient:	No data available	
Viscosity:	less than 5 mPa-s	at room temperature



Stability: Hazardous polymerization: Hazardous decomposition products: Stable Will not occur No data available

## **11. Toxicological information**

Acute toxicity: Oral LD50: Dermal LD50: Irritation: Skin: Eye: Skin sensitization: Mutagenicity: \*Based on toxicology data of chemically similar material.

>2,000mg/kg (Rats)\* >2,000mg/kg (Rats)\*

Non-irritating (Rabbit skin)\* Non-irritating (Rabbit eye)\* Non-sensitizing (Albino Guinea pig)\* None (by Ames assay)\*

## 12. Ecological information

No data available

### 13. Disposal considerations

Dispose of in accordance with federal, state and local regulations.

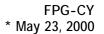
## 14. Transport information

No hazardous classification

## 15. Regulatory information

-

# 16. Other information





## 1. Identification of the product and of the company/undertaking:

# 1.1. Identification of the product:

Pigment Ink, FPG-CY

# 1.2. Company/undertaking identification

Roland DG Corporation
1-6-4 Shinmiyakoda Hamamatsu-shi
Shizuoka 431-2103
JAPAN
+ 81-53-484-1224
+ 81-53-484-1221

## 2. Composition/information on ingredients

Ingredients:
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Company Secret (Mixture: water-soluble ink)

## 3. Hazards identification

No hazardous classification according to Council Directive 88/379/EEC

4.	First	-aid	mea	sures

Swallowed:	First immediately rinse out mouth several times with water. Then drink 2-3 glasses of water. Give nothing by mouth to an unconscious person. Rest quietly in bed. Seek medical advice immediately.
Eye:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower lids. Contact lenses must be removed. Seek medical advice.
Skin:	If exposures is excessive, immediately remove all contaminated clothing in contact with the affected skin areas. Wash affected skin areas with soap and water. If symptoms such as irritation persist, seek medical advice.
Inhaled:	If the person breaths in a large amount of vapor, move the exposed the person to an area with fresh air. Seek medical advice immediately.



Flammability: Suitable extinguishing media: None Dry Chemical, carbon dioxide.

## 6. Accidental release measures

If spilt, use sponge to wipe up the ink. Place it in closed container for proper disposal. During working for clean up, put on rubber gloves and goggle to avoid contacting ink to skin and eyes.

#### 7. Handling and storage

## 7.1. Handling

Under normal circumstances, ink will not come out of the cartridges. If ink gets into your eyes or on your skin, see **4.First -aid measures**. Do not shake an ink cartridge; this can cause leakage. Do not dismantle the cartridge. Keep ink cartridges out of the reach of children. Do not drink ink.

## 7.2. Storage

Do not leave ink cartridges in high temperature and high humidity. Do not expose directly to the sun.

#### 8. Exposure controls/person protection

Exposure standards:	None
Engineering controls:	Not applicable
Personal protection:	None required when used as intended in Roland equipment.

Appearance	Cyan liquid	
Odor:	No odor	
pH:	Approximately 10	at room temperature
Boiling point:	No data available	
Melting point:	No data available	
Flashing point:	Not detected until 110°C	
Autoflammability:	None	
Explosive properties:	None	
Oxidizing properties:	None	
Vapor pressure:	No data available	
Relative density:	No data available	
Solubility in water:	$\infty$	
Solubility in fat:	No data available	
Partition coefficient:	No data available	
Viscosity:	less than 5 mPa•s	at room temperature



Stability: Hazardous polymerization: Hazardous decomposition products: Stable Will not occur No data available

## **11. Toxicological information**

Acute toxicity: Oral LD50: Dermal LD50: Irritation: Skin: Eye: Skin sensitization: Mutagenicity: \*Based on toxicology data of chemically similar material.

>2,000mg/kg (Rats)\* >2,000mg/kg (Rats)\*

Non-irritating (Rabbit skin)\* Non-irritating (Rabbit eye)\* Non-sensitizing (Albino Guinea pig)\* None (by Ames assay)\*

## 12. Ecological information

No data available

### 13. Disposal considerations

Dispose of in accordance with federal, state and local regulations.

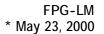
## 14. Transport information

No hazardous classification

## 15. Regulatory information

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# 16. Other information





## 1. Identification of the product and of the company/undertaking:

# 1.1. Identification of the product:

Pigment Ink, FPG-LM

# 1.2. Company/undertaking identification

Manufacture's name:	Roland DG Corporation
Address:	1-6-4 Shinmiyakoda Hamamatsu-shi
	Shizuoka 431-2103
	JAPAN
Phone:	+ 81-53-484-1224
Fax:	+ 81-53-484-1221

# 2. Composition/information on ingredients

•	Ingredients:	•

Company Secret (Mixture: water-soluble ink)

#### 3. Hazards identification

No hazardous classification according to Council Directive 88/379/EEC

Swallowed:	First immediately rinse out mouth several times with water. Then drink 2-3 glasses of water. Give nothing by mouth to an unconscious person. Rest quietly in bed. Seek medical advice immediately.
Eye:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower lids. Contact lenses must be removed. Seek medical advice.
Skin:	If exposures is excessive, immediately remove all contaminated clothing in contact with the affected skin areas. Wash affected skin areas with soap and water. If symptoms such as irritation persist, seek medical advice.
Inhaled:	If the person breaths in a large amount of vapor, move the exposed the person to an area with fresh air. Seek medical advice immediately.



Flammability: Suitable extinguishing media: None Dry Chemical, carbon dioxide.

## 6. Accidental release measures

If spilt, use sponge to wipe up the ink. Place it in closed container for proper disposal. During working for clean up, put on rubber gloves and goggle to avoid contacting ink to skin and eyes.

#### 7. Handling and storage

# 7.1. Handling

Under normal circumastances, ink will not come out of the cartridges. If ink gets into your eyes or on your skin, see **4.First -aid measures**. Do not shake an ink cartridge; this can cause leakage. Do not dismantle the cartridge. Keep ink cartridges out of the reach of children. Do not drink ink.

## 7.2. Storage

Do not leave ink cartridges in high temperature and high humidity. Do not expose directly to the sun.

#### 8. Exposure controls/person protection

Exposure standards:	None
Engineering controls:	Not applicable
Personal protection:	None required when used as intended in Roland equipment.

Appearance	Magenta liquid	
Odor:	No odor	
pH:	Approximately 9	at room temperature
Boiling point:	No data available	
Melting point:	No data available	
Flashing point:	Not detected until 110°C	
Autoflammability:	None	
Explosive properties:	None	
Oxidizing properties:	None	
Vapor pressure:	No data available	
Relative density:	No data available	
Solubility in water:	∞	
Solubility in fat:	No data available	
Partition coefficient:	No data available	
Viscosity:	less than 5 mPa•s	at room temperature



Stability: Hazardous polymerization: Hazardous decomposition products: Stable Will not occur No data available

## **11. Toxicological information**

Acute toxicity: Oral LD50: Dermal LD50: Irritation: Skin: Eye: Skin sensitization: Mutagenicity: \*Based on toxicology data of chemically similar material.

>2,000mg/kg (Rats)\* >2,000mg/kg (Rats)\*

Non-irritating (Rabbit skin)\* Non-irritating (Rabbit eye)\* Non-sensitizing (Albino Guinea pig)\* None (by Ames assay)\*

## 12. Ecological information

No data available

### 13. Disposal considerations

Dispose of in accordance with federal, state and local regulations.

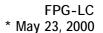
### 14. Transport information

No hazardous classification

## 15. Regulatory information

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# 16. Other information





## 1. Identification of the product and of the company/undertaking:

# 1.1. Identification of the product:

Pigment Ink, FPG-LC

# 1.2. Company/undertaking identification

Manufacture's name:	Roland DG Corporation
Address:	1-6-4 Shinmiyakoda Hamamatsu-shi
	Shizuoka 431-2103
	JAPAN
Phone:	+ 81-53-484-1224
Fax:	+ 81-53-484-1221

## 2. Composition/information on ingredients

Company Secret (Mixture: water-soluble ink)

#### 3. Hazards identification

No hazardous classification according to Council Directive 88/379/EEC

Swallowed:	First immediately rinse out mouth several times with water. Then drink 2-3 glasses of water. Give nothing by mouth to an unconscious person. Rest quietly in bed. Seek medical advice immediately.
Eye:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower lids. Contact lenses must be removed. Seek medical advice.
Skin:	If exposures is excessive, immediately remove all contaminated clothing in contact with the affected skin areas. Wash affected skin areas with soap and water. If symptoms such as irritation persist, seek medical advice.
Inhaled:	If the person breaths in a large amount of vapor, move the exposed the person to an area with fresh air. Seek medical advice immediately.



Flammability: Suitable extinguishing media: None Dry Chemical, carbon dioxide.

#### 6. Accidental release measures

If spilt, use sponge to wipe up the ink. Place it in closed container for proper disposal. During working for clean up, put on rubber gloves and goggle to avoid contacting ink to skin and eyes.

#### 7. Handling and storage

# 7.1. Handling

Under normal circumastances, ink will not come out of the cartridges. If ink gets into your eyes or on your skin, see **4.First -aid measures**. Do not shake an ink cartridge; this can cause leakage. Do not dismantle the cartridge. Keep ink cartridges out of the reach of children. Do not drink ink.

## 7.2. Storage

Do not leave ink cartridges in high temperature and high humidity. Do not expose directly to the sun.

#### 8. Exposure controls/person protection

Exposure standards:	None
Engineering controls:	Not applicable
Personal protection:	None required when used as intended in Roland equipment.

Cyan liquid	
No odor	
Approximately 9	at room temperature
No data available	
No data available	
Not detected until 110°C	
None	
None	
None	
No data available	
No data available	
$\infty$	
No data available	
No data available	
less than 5 mPa•s	at room temperature
	No odor Approximately 9 No data available No data available Not detected until $110^{\circ}$ C None None None No data available No data available No data available No data available No data available



Stability: Hazardous polymerization: Hazardous decomposition products: Stable Will not occur No data available

## 11. Toxicological information

Acute toxicity: Oral LD50: Dermal LD50: Irritation: Skin: Eye: Skin sensitization: Mutagenicity: \*Based on toxicology data of chemically similar material.

>2,000mg/kg (Rats)\* >2,000mg/kg (Rats)\*

Non-irritating (Rabbit skin)\* Non-irritating (Rabbit eye)\* Non-sensitizing (Albino Guinea pig)\* None (by Ames assay)\*

## 12. Ecological information

No data available

### 13. Disposal considerations

Dispose of in accordance with federal, state and local regulations.

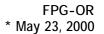
### 14. Transport information

No hazardous classification

## 15. Regulatory information

-

# 16. Other information





## 1. Identification of the product and of the company/undertaking:

# 1.1. Identification of the product:

Pigment Ink, FPG-OR

# 1.2. Company/undertaking identification

#### 2. Composition/information on ingredients

Ingredients:	
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Company Secret (Mixture: water-soluble ink)

#### 3. Hazards identification

No hazardous classification according to Council Directive 88/379/EEC

Swallowed:	First immediately rinse out mouth several times with water. Then drink 2-3 glasses of water. Give nothing by mouth to an unconscious person. Rest quietly in bed. Seek medical advice immediately.
Eye:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower lids. Contact lenses must be removed. Seek medical advice.
Skin:	If exposures is excessive, immediately remove all contaminated clothing in contact with the affected skin areas. Wash affected skin areas with soap and water. If symptoms such as irritation persist, seek medical advice.
Inhaled:	If the person breaths in a large amount of vapor, move the exposed the person to an area with fresh air. Seek medical advice immediately.



Flammability: Suitable extinguishing media: None Dry Chemical, carbon dioxide.

## 6. Accidental release measures

If spilt, use sponge to wipe up the ink. Place it in closed container for proper disposal. During working for clean up, put on rubber gloves and goggle to avoid contacting ink to skin and eyes.

#### 7. Handling and storage

## 7.1. Handling

Under normal circumastances, ink will not come out of the cartridges. If ink gets into your eyes or on your skin, see **4.First -aid measures**. Do not shake an ink cartridge; this can cause leakage. Do not dismantle the cartridge. Keep ink cartridges out of the reach of children. Do not drink ink.

## 7.2. Storage

Do not leave ink cartridges in high temperature and high humidity. Do not expose directly to the sun.

#### 8. Exposure controls/person protection

Exposure standards:	None
Engineering controls:	Not applicable
Personal protection:	None required when used as intended in Roland equipment.

Appearance	Orange liquid	
Odor:	No odor	
pH:	Approximately 9	at room temperature
Boiling point:	No data available	
Melting point:	No data available	
Flashing point:	Not detected until 110°C	
Autoflammability:	None	
Explosive properties:	None	
Oxidizing properties:	None	
Vapor pressure:	No data available	
Relative density:	1.08	at room temperature
Solubility in water:	$\infty$	
Solubility in fat:	No data available	
Partition coefficient:	No data available	
Viscosity:	less than 5 mPa•s	at room temperature



Stability: Hazardous polymerization: Hazardous decomposition products: Stable Will not occur No data available

## **11. Toxicological information**

Acute toxicity: Oral LD50: Dermal LD50: Irritation: Skin: Eye: Skin sensitization: Mutagenicity: \*Based on toxicology data of chemically similar material.

>2,000mg/kg (Rats)\* >2,000mg/kg (Rats)\*

Non-irritating (Rabbit skin)\* Non-irritating (Rabbit eye)\* Non-sensitizing (Albino Guinea pig)\* None (by Ames assay)\*

## 12. Ecological information

No data available

### 13. Disposal considerations

Dispose of in accordance with federal, state and local regulations.

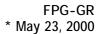
## 14. Transport information

No hazardous classification

## 15. Regulatory information

-

## 16. Other information





## 1. Identification of the product and of the company/undertaking:

# 1.1. Identification of the product:

Pigment Ink, FPG-GR

# 1.2. Company/undertaking identification

Manufacture's name:	Roland DG Corporation	
Address:	1-6-4 Shinmiyakoda Hamamatsu-shi	
	Shizuoka 431-2103	
	JAPAN	
Phone:	+ 81-53-484-1224	
Fax:	+ 81-53-484-1221	
	+ 81-53-484-1224	

## 2. Composition/information on ingredients

Ingredients:	
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Company Secret (Mixture: water-soluble ink)

#### 3. Hazards identification

No hazardous classification according to Council Directive 88/379/EEC

Swallowed:	First immediately rinse out mouth several times with water. Then drink 2-3 glasses of water. Give nothing by mouth to an unconscious person. Rest quietly in bed. Seek medical advice immediately.
Eye:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower lids. Contact lenses must be removed. Seek medical advice.
Skin:	If exposures is excessive, immediately remove all contaminated clothing in contact with the affected skin areas. Wash affected skin areas with soap and water. If symptoms such as irritation persist, seek medical advice.
Inhaled:	If the person breaths in a large amount of vapor, move the exposed the person to an area with fresh air. Seek medical advice immediately.



Flammability: Suitable extinguishing media: None Dry Chemical, carbon dioxide.

## 6. Accidental release measures

If spilt, use sponge to wipe up the ink. Place it in closed container for proper disposal. During working for clean up, put on rubber gloves and goggle to avoid contacting ink to skin and eyes.

#### 7. Handling and storage

## 7.1. Handling

Under normal circumastances, ink will not come out of the cartridges. If ink gets into your eyes or on your skin, see **4.First -aid measures**. Do not shake an ink cartridge; this can cause leakage. Do not dismantle the cartridge. Keep ink cartridges out of the reach of children. Do not drink ink.

## 7.2. Storage

Do not leave ink cartridges in high temperature and high humidity. Do not expose directly to the sun.

#### 8. Exposure controls/person protection

Exposure standards:	None
Engineering controls:	Not applicable
Personal protection:	None required when used as intended in Roland equipment.

Appearance	Green liquid	
Odor:	No odor	
pH:	Approximately 9	at room temperature
Boiling point:	No data available	
Melting point:	No data available	
Flashing point:	Not detected until 110°C	
Autoflammability:	None	
Explosive properties:	None	
Oxidizing properties:	None	
Vapor pressure:	No data available	
Relative density:	1.08	at room temperature
Solubility in water:	$\infty$	
Solubility in fat:	No data available	
Partition coefficient:	No data available	
Viscosity:	less than 5 mPa∙s	at room temperature



Stability: Hazardous polymerization: Hazardous decomposition products: Stable Will not occur No data available

## **11. Toxicological information**

Acute toxicity: Oral LD50: Dermal LD50: Irritation: Skin: Eye: Skin sensitization: Mutagenicity: \*Based on toxicology data of chemically similar material.

>2,000mg/kg (Rats)\* >2,000mg/kg (Rats)\*

Non-irritating (Rabbit skin)\* Non-irritating (Rabbit eye)\* Non-sensitizing (Albino Guinea pig)\* None (by Ames assay)\*

## 12. Ecological information

No data available

### 13. Disposal considerations

Dispose of in accordance with federal, state and local regulations.

## 14. Transport information

No hazardous classification

## 15. Regulatory information

-

## 16. Other information